

### Amendments to the Claims

This listing of claims replaces all prior versions and listings of claims in the application.

### Listing of Claims

1. (Currently Amended) A polynucleotide consisting of the base sequence of SEQ ID NO:2, or a complementary strand thereto, wherein the ~~X~~ nucleotide at position 6055 of SEQ ID NO:2 is ~~one of the group being defined by the bases A, C or T.~~
2. (Currently Amended) A polynucleotide according to claim 1, wherein the polynucleotide is at ~~the~~ least a part of a gene.
3. (Original) A recombinant vector comprising a polynucleotide according to claim 1.
4. (Currently Amended) A DNA primer or probe specific for the polynucleotide of claim 1, wherein ~~it~~ the primer or probe contains ~~more than 10~~ at least 18 consecutive nucleotides from the ~~nucleotide, polynucleotide~~ or the complementary strand.
5. (Currently Amended) A method of ~~proving screening for~~ parkinsonism inheritance in a subject, by screening comprising using the DNA primer or probe of claim 10 to determine whether or not a sample of material taken from the subject ~~of interest, with a probe according to elaim-5~~ comprises a polynucleotide that corresponds to SEQ ID NO:2 and has an A at position 6055, or the complement thereof, wherein the presence of said polynucleotide indicates parkinsonism inheritance.
- 6-9. (Cancelled)
10. (New) A polynucleotide containing more than 10 consecutive nucleotides from the SEQ ID NO:2 or the complementary strand thereof, wherein the polynucleotide contains nucleotide position 6055 of SEQ ID NO:2.
11. (New) The polynucleotide of claim 10, wherein the nucleotide at the position corresponding to position 6055 of SEQ ID NO:2 is A.